



Advanced Approaches to Wildfire Detection, Monitoring and Surveillance

Guest Editors:

Prof. Dr. Darko Stipanicev

Faculty of Electrical Engineering,
Mechanical Engineering and
Naval Architecture, University of
Split, Split, Croatia

Dr. Giovanni Laneve

Earth Observation and Satellite
Image Applications Laboratory
(EOSIAL), School of Aerospace
Engineering (SIA), Sapienza
University of Rome, Via Salaria,
Roma, Italy

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submissions:

closed (31 July 2025)



Message from the Guest Editors

Dear Colleagues,

We are pleased to invite you to submit a paper to the Special Issue of the journal *Fire*.

In this Special Issue, original research articles and reviews are welcome. Research areas may include (but are not limited to) the following:

- Wildfire detection, monitoring and surveillance in wildland–urban interfaces (WUIs);
- Fire detection and monitoring in open-space areas, such as disposal sites, garbage dumps, warehouses, marinas, dry-land marinas, harbors, parking places, etc.;
- Wildfire video-based detection, monitoring and surveillance, including model-based, data-driven and learning-based approaches;
- Wildfire detection and monitoring via satellite and aerial remote sensing systems;
- Wildfire detection validation and testing;
- Preparation and presentation of databases for wildfire detection training, validation and testing;
- Post-fire monitoring of burned areas and their analysis;
- Integration of wildfire video monitoring with other advanced methods such as the Internet of Things (IoT) and/or Crowdsourcing;
- Integration of wildfire monitoring and surveillance with advanced IoT systems.



fire



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Editor-in-Chief

Dr. Grant Williamson

School of Biological Sciences,
University of Tasmania, Private
Bag 55, Hobart, TAS 7001,
Australia

Message from the Editor-in-Chief

Fire is an international open-access journal about the science, policy, and technology of fires and how they interact with communities and the environment. *Fire* seeks to provide a forum to help the fire science community convey how we can live with fire in a changing world. *Fire* seeks submissions from interdisciplinary studies that take a pyrogeography perspective of fires occurring in natural, cultural, and industrial landscapes and how they interact with communities in the science-policy interface. *Fire's* Editorial Board are widely recognized international leaders. The journal emphasizes quality and innovation and has a rigorous peer-review process. I strongly recommend *Fire* for the rapid publication of your innovative research publications and case studies.

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Fire Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
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